

## **ABSTRACT**

Manual braking system with a variable braking force for a wheelchair. Caliper type brakes positioned to mount on and exert braking force on disks mounted to interior “disk” hubs rotatably mounted to the wheelchair frame wheel hubs are mated with the “disk” hubs with a push button release pin allowing the wheel to be quickly removed without disturbing disk braking system. Caliper brakes are actuated by a manual lever arm, cable and pulley combination mounted to the frame of the wheelchair. The lever is provided with and without a plunger mechanism. A plunger mechanism allows the user to maintain the manual braking force exerted on lever without hands. The plunger mechanism is fixably mounted and positioned to insert a plunger head into notches on the lever. The force exerted by the plunger head is sufficient to hold the plunger head within the notch and prevent movement of the lever without manual force.